20. (New) The method according to claim 18, wherein programming language commands are provided in the flowchart editor as a function of the associated hardware configuration.

21. (New) The method according to claim 18, wherein the graphical elements are provided as programming language elements of the motion control flowchart.

22. (New) The method according to claim 18, wherein the structured text subprograms comprise structured text according to IEC 6-1131.

23. (New) The method according to claim 22, further comprising the step of switching between three forms of representation, the forms selected from the set consisting of structured textual language, contact plan and function plan.

24. (New) The method according to claim 18, wherein at least one programming language command selected from the group consisting of loop and parallel branch programming language commands is provided in motion control flowchart notation.

25. (New) The method according to claim 24, wherein a parallel branch is provided and individual commands are initiated in a given interpolator cycle within respective parallel branches.

26. (New) The method according to claim 18, wherein parameters are set for the function blocks via a mask input in motion control flowchart notation.

27. (New) The method according to claim 18, comprising the further steps of combining function blocks into modules, and representing the modules as function blocks in motion control flowchart notation.

28. (New) The method according to claim 27, modules are interleaved in motion control flowchart notation.

29. (New) The method according to claim 18, further comprising the step of assigning, in motion control flowchart notation, multiple variables in function blocks.

30. (New) The method according to claim 18, wherein function blocks that represent functions requiring a period of time, comprise step-enabling conditions in motion control flowchart notation.

31. (New) The method according to claim 18, wherein the graphic elements of the flowchart are positioned automatically.

32. (New) The method according to claim 18, wherein the graphic elements of the flowchart are linked together automatically.

33. (New) The method according to claim 18, wherein the flowchart is displayed in a form comprising one form selected from the group consisting of an enlarged form and a reduced form:

34. (New) The method according to claim 18, wherein recompiling in motion control flowchart notation is possible by means of marks in the textual language.